

Coast Guard, DHS

§ 182.100

(d) The frame or support of each B-V fire extinguisher permitted by paragraph (c) of this section must be welded or otherwise permanently attached to a bulkhead or deck.

[CGD 85-080, 61 FR 982, Jan. 10, 1996; 61 FR 24464, May 15, 1996, as amended at 62 FR 51358, Sept. 30, 1997]

§ 181.520 Installation and location.

Portable fire extinguishers must be located so that they are clearly visible and readily accessible from the space being protected. The installation and location must be to the satisfaction of the Officer in Charge, Marine Inspection.

Subpart F—Additional Equipment

§ 181.600 Fire axe.

A vessel of more than 19.8 meters (65 feet) in length must have at least one fire axe located in or adjacent to the primary operating station.

§ 181.610 Fire bucket.

A vessel not required to have a power driven fire pump by § 181.300 must have at least three 9.5 liter (2½ gallon) buckets, with an attached lanyard satisfactory to the cognizant OCMI, placed so as to be easily available during an emergency. The words "FIRE BUCKET" must be stenciled in a contrasting color on each bucket.

[CGD 85-080, 61 FR 982, Jan. 10, 1996, as amended at 62 FR 51358, Sept. 30, 1997]

PART 182—MACHINERY INSTALLATION

Subpart A—General Provisions

Sec.

- 182.100 Intent.
- 182.115 Applicability to existing vessels.
- 182.130 Alternative standards.

Subpart B—Propulsion Machinery

- 182.200 General.
- 182.220 Installations.

Subpart C—Auxiliary Machinery

- 182.310 Installations.
- 182.320 Water heaters.
- 182.330 Pressure vessels.

Subpart D—Specific Machinery Requirements

- 182.400 Applicability.
- 182.405 Fuel restrictions.
- 182.410 General requirements.
- 182.415 Carburetors.
- 182.420 Engine cooling.
- 182.422 Integral and non-integral keel cooler installations.
- 182.425 Engine exhaust cooling.
- 182.430 Engine exhaust pipe installation.
- 182.435 Integral fuel tanks.
- 182.440 Independent fuel tanks.
- 182.445 Fill and sounding pipes for fuel tanks.
- 182.450 Vent pipes for fuel tanks.
- 182.455 Fuel piping.
- 182.458 Portable fuel systems.
- 182.460 Ventilation of spaces containing machinery powered by, or fuel tanks for, gasoline.
- 182.465 Ventilation of spaces containing diesel machinery.
- 182.470 Ventilation of spaces containing diesel fuel tanks.
- 182.480 Flammable vapor detection systems.

Subpart E—Bilge and Ballast Systems

- 182.500 General.
- 182.510 Bilge piping system.
- 182.520 Bilge pumps.
- 182.530 Bilge high level alarms.
- 182.540 Ballast systems.

Subpart F—Steering Systems

- 182.600 General.
- 182.610 Main steering gear.
- 182.620 Auxiliary means of steering.

Subpart G—Piping Systems

- 182.700 General.
- 182.710 Piping for vital systems.
- 182.715 Piping subject to more than 1,034 kPa (150 psig) in non-vital systems.
- 182.720 Nonmetallic piping materials.
- 182.730 Nonferrous metallic piping materials.

AUTHORITY: 46 U.S.C. 3306; E.O. 12234, 45 FR 58801, 3 CFR, 1980 Comp., p. 277; 49 CFR 1.46.

SOURCE: CGD 85-080, 61 FR 986, Jan. 10, 1996, unless otherwise noted.

Subpart A—General Provisions

§ 182.100 Intent.

This part contains requirements for the design, construction, installation, and operation of propulsion and auxiliary machinery, piping and pressure systems, steering apparatus, and associated safety systems. Machinery and

§ 182.115

equipment installed on each vessel must be suitable for the vessel and its operation and for the purpose intended. All machinery and equipment must be installed and maintained in such a manner as to afford adequate protection from causing fire, explosion, machinery failure, and personnel injury.

§ 182.115 Applicability to existing vessels.

(a) Except as otherwise required by paragraphs (b), (c) and (d) of this section, an existing vessel must comply with the regulations on machinery, bilge and ballast system equipment, steering apparatus, and piping systems or components that were applicable to the vessel on March 10, 1996 or, as an alternative, the vessel may comply with the regulations in this part.

(b) New installations of machinery, bilge and ballast system equipment, steering equipment, and piping systems or components on an existing vessel, which are completed to the satisfaction of the cognizant Officer in Charge, Marine Inspection (OCMI) on or after March 11, 1996, must comply with the regulations of this part. Replacement of existing equipment installed on the vessel prior to March 11, 1996, need not comply with the regulations in this part.

(c) An existing vessel equipped with machinery powered by gasoline or other fuels having a flash point of 43.3° C (110° F) or lower must comply with the requirements of § 182.410(c) on or before March 11, 1999.

(d) On or before March 11, 1999, an existing vessel must comply with the bilge high level alarm requirements in § 182.530.

§ 182.130 Alternative standards.

A vessel of not more than 19.8 meters (65 feet) in length carrying not more than 12 passengers propelled by gasoline or diesel internal combustion engines, other than a High Speed Craft, may comply with the following American Boat and Yacht Council (ABYC) Projects or 33 CFR subchapter S (Boating Safety), where indicated in this part, in lieu of complying with those requirements:

46 CFR Ch. I (10–1–03 Edition)

(a) H-2—“Ventilation of Boats Using Gasoline”, or 33 CFR 183, subpart K, “Ventilation”;

(b) H-22—“DC Electric Bilge Pumps Operating Under 50 Volts”;

(c) H-24—“Gasoline Fuel Systems”, or 33 CFR 183, subpart J—“Fuel System”;

(d) H-25—“Portable Gasoline Fuel Systems for Flammable Liquids”;

(e) H-32—“Ventilation of Boats Using Diesel Fuel”;

(f) H-33—“Diesel Fuel Systems”;

(g) P-1—“Installation of Exhaust Systems for Propulsion and Auxiliary Engines”; and

(h) P-4—“Marine Inboard Engines”.

Subpart B—Propulsion Machinery

§ 182.200 General.

(a) Propulsion machinery must be suitable in type and design for propulsion requirements of the hull in which it is installed and capable of operating at constant marine load under such requirements without exceeding its designed limitations.

(b) All engines must have at least two means for stopping the engine(s) under any operating conditions. The fuel oil shutoff required at the engine by § 182.455(b)(4) will satisfy one means of stopping the engine.

§ 182.220 Installations.

(a) Except as otherwise provided in this section, propulsion machinery installations must comply with the provisions of this part.

(b) The requirements for machinery and boilers for steam and electrically propelled vessels are contained in applicable regulations in subchapter F (Marine Engineering) and subchapter J (Electrical Engineering) of this chapter.

(c) Propulsion machinery of an unusual type for small passenger vessels must be given separate consideration and is subject to such requirements as determined necessary by the cognizant OCMI. These unusual types of propulsion machinery include:

(1) Gas turbine machinery installations;

(2) Air screws;

(3) Hydraulic jets; and